

PCT/US03/08068

PCT
REQUEST

The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty.

For receiving Office use only

International Application No.

PCT/US 03/08068

18 MAR 2004 (1803.04)

International Application No.

PCT INTERNATIONAL
APPLICATION RO/US

Name of receiving Office and "PCT International Application"

Applicant's or agent's file reference
(if desired) (12 characters maximum)

48619/275913

Box No. I TITLE OF INVENTION: SYSTEMS, METHODS AND COMPUTER PROGRAM PRODUCTS FOR MONITORING TRANSPORT CONTAINERS

Box No. II APPLICANT

 This person is also inventor

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)

Telephone No.

Facsimile No.

Applicant's registration No. with the Office

POWERS INTERNATIONAL, INC.
27 Catawba Street, Suite A
Belmont, NC 28012 US

State (that is, country) of nationality: US

State (that is, country) of residence: US

This person is applicant for the purposes of:

 all designated States all designated States except the United States of America the United States of America only the States indicated in the Supplemental Box

Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)

This person is:

 applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.)

Applicant's registration No. with the Office

GIERMANSKI, James R.
508 Dogwood Lane
Belmont, NC 28012 US

State (that is, country) of nationality: US

State (that is, country) of residence: US

This person is applicant for the purposes of:

 all designated States all designated States except the United States of America the United States of America only the States indicated in the Supplemental Box Further applicants and/or (further) inventors are indicated on a continuation sheet.

Box No. IV AGENT OR COMMON REPRESENTATIVE; OR ADDRESS FOR CORRESPONDENCE

The person identified below is hereby/has been appointed to act on behalf of the applicant(s) before the competent International Authorities as:

 agent common representative

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)

Telephone No. Charlotte Office (704) 444-1000

Facsimile No. Charlotte Office (704) 444-1111

Agent's registration No. with the Office

42,212

WARD, Henry B., III
ALSTON & BIRD LLP
Bank of America Plaza
101 South Tryon Street, Suite 4000
Charlotte, NC 28280-4000 US

 Address for correspondence: Mark this check-box where no agent or common representative is/has been appointed and the space above is used instead to indicate a special address to which correspondence should be sent

Continuation of Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)

If none of the following sub-boxes is used, this sheet should not be included in the request.

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)

SMITH, Philippus Lodewyk Jacobus
470 Milner Street
Waterkloof SOUTH AFRICA

This person is:

applicant only
 applicant and inventor
 inventor only (If this check-box is marked, do not fill in below.)

Applicant's registration No. with the Office

State (that is, country) of nationality: ZA

State: (that is, country) of residence: ZA

This person is
applicant for the all designated States all designated States
purposes of: States except the United States of America States of America only

The United States of America only the States indicated in the Supplemental Box

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)

VAN ROOYEN, Vincent Ridardo
168 Ruimte Road
Wierda Park
Centurion SOUTH AFRICA

This person is:

applicant only
 applicant and inventor
 inventor only (If this check-box is marked, do not fill in below.)

Applicant's registration No. with the Office

State (that is, country) of nationality: ZA

State: (that is, country) of residence: ZA

This person is
applicant for the all designated States all designated States
purposes of: States except the United States of America States of America only

The United States of America only the States indicated in the Supplemental Box

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)

This person is:

applicant only
 applicant and inventor
 inventor only (If this check-box is marked, do not fill in below.)

Applicant's registration No. with the Office

State (that is, country) of nationality:

State: (that is, country) of residence:

This person is
applicant for the all designated States all designated States
purposes of: States except the United States of America The United States of America only the States indicated in the Supplemental Box

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)

This person is:

applicant only
 applicant and inventor
 inventor only (If this check-box is marked, do not fill in below.)

Applicant's registration No. with the Office

State (that is, country) of nationality:

State: (that is, country) of residence:

This person is
applicant for the all designated States all designated States
purposes of: States except the United States of America The United States of America only the States indicated in the Supplemental Box

Further applicants and/or (further) inventors are indicated on another continuation sheet.

CONTINUATION OF BOX NO. IV

The following additional attorneys or agents, in their capacity as representatives of, ALSTON & BIRD LLP, are also appointed:

| | |
|--------------------------|--------------------------|
| ANDERSON, J. Scott | KOSTER, Karl H. |
| ARROYO, Blas P. | KRON, Eric J. |
| ARZU, Quetia | LAWSON, Lance A. |
| ATKINSON, William M. | LEAK, Frank W., Jr. |
| BALTS, Timothy | LINKER, Raymond O., Jr. |
| BARNHARDT, John J., III | LIPSCOMB, Ernest B., III |
| BATES, Andrea E. | LUEDERS, Spencer G. |
| BELL, Paul B. | LUPO, Dickson M. |
| BLACK, C. Allen | LYN, Kevin R. |
| BRADLEY, Kirk T. | McCLELLAND, Todd S. |
| BRIENT, Scott E. | MC COY, Michael D. |
| BROYLES, Keith E. | McDERMOTT, Richard M. |
| CAGLE, Ryan | MCNIFF, Stephen |
| CARLIN, Gregory | MEUNIER, Andrew T. |
| CLAUSON, Heather L. | MORSE, Karen M. |
| CONNOR, Michael S. | O'BRIEN, Kevin A |
| COOPER, Jason P. | PARKER, Thomas |
| COOPER, Jeffrey | PEDIGO, Paul F. |
| CORNELL, David Anthony | PENDLETON, Melissa B. |
| COULTER, Kathryn L. | PICHÉ, Jason |
| CUNNINGHAM, Michelle | PLEUNE, Scott B. |
| CUNNINGHAM, Robert B. | PRINCE, Edward M. |
| EDWARDS, James C. | RANSOM, W. Kevin |
| ELDERKIN, Charles B. | ROBERSON, Keith |
| ELLSWORTH, Brian | ROSE, Bruce J. |
| ELSEVIER, Patrick | SARAVITZ, David |
| ERGENZINGER, Edward | SCOTT, Walter |
| FRY, John P. | SIDBURY, Benjamin F. |
| GALLO, Nicholas F. | SPENCE, Andrew |
| GEgg, Christopher | SPRUILL, W. Murray |
| GOSNELL, Guy R. | STRAIGHT, Robert E. |
| GREGG, Heather L. | STRUBY, Meredith W. |
| GRONHOLM, Gregory | SULLIVAN, John L., Jr. |
| HAYNES, John D. | TAULBEE, George M. |
| HENRY, Leslie T. | TESKE, David |
| HERNDON, J. Perry | THORNE, Leigh W. |
| HIGGINS, John P. | URBANAWIZ, Matthew |
| HILL, Donald M., Jr. | WARD, III, Henry B. |
| HUMPHREY, Christopher M. | WASLEFF, John A. |
| JONES, Larry C. | WILLIAMSON, Kelly J. |
| JURGOVAN, Jon M. | WILSON, J. Mark |
| KAHLE, Neill R., Jr. | WINBORNE, George O. |
| KIRK, Trent A. | WITHERSPOON, James A. |
| | YOUNG, Jeffrey |
| | YOUNG, J. Scott |

All of the firm and address identified in Box No. IV.

Box No. V DESIGNATIONS

The filing of this request **constitutes under Rule 4.9(a)**, the designation of all Contracting States bound by the PCT on the international filing date, for the grant of every kind of protection available and, where applicable, for the grant of both regions and national patents.

However,

DE Germany is **not designated** for any kind of national protection
 KR Republic of Korea is **not designated** for any kind of national protection
 RU Russian Federation is **not designated** for any kind of national protection

(The check-boxes above may be used to exclude (irrevocably) the designations concerned in order to avoid the ceasing of the effect, under the national law, of an earlier national application from which priority is claimed. See the Notes to Box No. V as to the consequences of such national law provisions in these and certain other States.)

Box No. VI PRIORITY CLAIM

The priority of the following earlier application(s) is hereby claimed:

| Filing date of earlier application (day/month/year) | Number of earlier application | Where earlier application is: | | |
|---|----------------------------------|--|--|--|
| | | national application: country or Member of WTO | regional application: * regional Office | international application: receiving Office |
| item (1) 20 March 2003 (20.03.03) | 2003/2250 | ZA | | |
| item (2) | | | | |
| item (3) | | | | |

Further priority claims are indicated in the Supplemental Box.

The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) (*only if the earlier application was filed with the Office which for the purposes of this international application is the receiving Office*) identified above as:

all items item (1) item (2) item (3) other, see Supplemental Box

* *Where the earlier application is an ARIPO application, indicate at least one country party to the Paris Convention for the Protection of Industrial Property or one Member of the World Trade Organization for which that earlier application was filed (Rule 4.10(b)(ii)):*

Box No. VII INTERNATIONAL SEARCHING AUTHORITY

Choice of International Searching Authority (ISA) (*if two or more International Searching Authorities are competent to carry out the international search, indicate the Authority chosen; the two-letter code may be used*):

ISA /EP

Request to use results of earlier search; reference to that search (*if an earlier search has been carried out by or requested from the International Searching Authority*):

Date (day/month/year) Number Country (or regional Office)

Box No. VIII DECLARATIONS

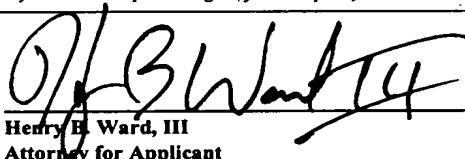
The following declarations are contained in Boxes Nos. VIII(i) to (v) (*mark the applicable check-boxes below and indicate in the right column the number of each type of declaration*):

| | | Number of declarations |
|--|--|------------------------|
| <input type="checkbox"/> Box No. VIII(i) | Declaration as to the identity of the inventor | : |
| <input type="checkbox"/> Box No. VIII(ii) | Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent | : |
| <input type="checkbox"/> Box No. VIII(iii) | Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application | : |
| <input type="checkbox"/> Box No. VIII(iv) | Declaration of inventorship (only for the purposes of the designation of the United States of America) | : |
| <input type="checkbox"/> Box No. VIII(v) | Declaration as to non-prejudicial disclosures or exceptions to lack of novelty | : |

| Box No. IX | CHECK LIST; LANGUAGE OF FILING | Number of items |
|--|---|--|
| This international application contains: | | |
| (a) in paper form, the following number of sheets: | | |
| request (including declaration sheets) | : 5 | <input checked="" type="checkbox"/> fee calculation sheet : 1 |
| description (excluding sequence listings and/or tables related thereto) | : 16 | <input type="checkbox"/> original separate power of attorney : 1 |
| claims | : 7 | <input type="checkbox"/> original general power of attorney : 1 |
| abstract | : 1 | <input type="checkbox"/> copy of general power of attorney; reference number, if any: : 1 |
| drawings | : 10 | <input type="checkbox"/> statement explaining lack of signature : 1 |
| Sub-total number of sheets | : 39 | <input type="checkbox"/> priority document(s) identified in Box No. VI as item(s): : 1 |
| sequence listings | | <input type="checkbox"/> translation of international application into (language): : 1 |
| tables related thereto (for both, actual number of sheets if filed in paper form, whether or not also filed in computer readable form; see (c) below): | | <input type="checkbox"/> separate indications concerning deposited microorganism or other biological material : 1 |
| Total number of sheets | : 39 | <input type="checkbox"/> sequence listings in computer readable form (indicate type and number of carriers) |
| (b) <input type="checkbox"/> only in computer readable form (Section 801(a)(i)) | | <input type="checkbox"/> (i) copy submitted for the purposes of international search under Rule 13ter only (and not as part of the international application) : 1 |
| (i) <input type="checkbox"/> sequence listings | | <input type="checkbox"/> (ii) (only where check-box (b)(i) or (c)(i) is marked in left column) additional copies including, where applicable, the copy for the purposes of international search under Rule 13ter : 1 |
| (ii) <input type="checkbox"/> tables related thereto | | <input type="checkbox"/> (iii) together with relevant statement as to the identity of the copy or copies with the sequence listings mentioned in left column : 1 |
| (c) <input type="checkbox"/> also in computer readable form (Section 801(a)(ii)) | | <input type="checkbox"/> 10. tables in computer readable form related to sequence listings (indicate type and number of carriers) |
| (i) <input type="checkbox"/> sequence listings | | <input type="checkbox"/> (i) copy submitted for the purposes of international search under Section 802(b-quarter) only (and not as part of the international application) : 1 |
| (ii) <input type="checkbox"/> tables related thereto | | <input type="checkbox"/> (ii) (only where check-box (b)(ii) or (c)(ii) is marked in left column) additional copies including, where applicable, the copy for the purposes of international search under Section 802(b-quarter) : 1 |
| Type and number of carriers (diskette, CD-ROM, CD-R or other) on which are contained the | | <input type="checkbox"/> (iii) together with relevant statement as to the identity of the copy or copies with the tables mentioned in left column : 1 |
| <input type="checkbox"/> sequence listings..... | | |
| <input type="checkbox"/> tables related thereto..... | | |
| (additional copies to be indicated under item 9(ii) and/or 10(ii), in right column) | | <input checked="" type="checkbox"/> 11. other (specify): <u>Transmittal Letter and Postcard</u> : 2 |
| Figure of the drawings which should accompany the abstract: | Language of filing of the international application: English | |

Box No. X SIGNATURE OF APPLICANT, AGENT OR COMMON REPRESENTATIVE

Next to each signature, indicate the name of the person signing and the capacity in which the person signs (if such capacity is not obvious from reading the request).



Henry B. Ward, III
Attorney for Applicant

For receiving Office use only

| | | | |
|---|---|--|--|
| 1. Date of actual receipt of the purported international application: | DT02 Rec'd PCT/PTO 18 MAR 2004 (18.03.04) | | 2. Drawings: |
| 3. Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application: | | | <input type="checkbox"/> received: |
| 4. Date of timely receipt of the required corrections under PCT Article 11(2): | | | <input type="checkbox"/> not received: |
| 5. International Searching Authority (if two or more are competent): ISA/EP | 6. <input type="checkbox"/> Transmittal of search copy delayed until search fee is paid | | |

For International Bureau use only

Date of receipt of the record copy by the International Bureau:

FEE CALCULATION SHEET
Annex to the Request

For receiving Office use only

International Application No.

PCT/US 04/08068

Applicant's or agent's
file reference 48619/27591318 MAR 2004 (18.03.04)
Date stamp of the receiving Office

Applicant POWERS INTERNATIONAL, INC.

CALCULATION OF PRESCRIBED FEES

1. TRANSMITTAL FEE USD 300 T2. SEARCH FEE 1,818 S

International search to be carried out by ISA/EP

(If two or more International Searching Authorities are competent to carry out the international search, indicate the name of the Authority which is chosen to carry out the international search.)

3. INTERNATIONAL FILING FEE

Where items (b) and/or (c) of Box No. IX apply, enter Sub-total number of sheets

Where items (b) and (c) of Box No. IX do not apply, enter Total number of sheets } 39first 30 sheets 1,035 i1
$$\begin{array}{r} 9 \\ \times \quad 11 \\ \hline \text{number of sheets} \quad \text{fee per sheet} \\ \text{in excess of 30} \end{array} \quad \begin{array}{r} 99 \\ \hline \text{i2} \end{array}$$

additional component (only if sequence listings and/or tables related thereto are filed in computer readable form under Section 801(a)(i), or both in that form and on paper, under Section 801(a)(ii):

400 X _____ = i3
fee per sheetAdd amounts entered at i1, i2 and i3 and enter total at I .. 1,134 I

(Applicants from certain States are entitled to a reduction of 75% of the international fee. Where the applicant is (or all applicants are) so entitled, the total to be entered at I is 25% of the international filing fee.)

4. FEE FOR PRIORITY DOCUMENT (if applicable) 0 P

5. TOTAL FEES PAYABLE

Add amounts entered at T, S, I and P, and enter total in the TOTAL box

3,252
TOTAL

MODE OF PAYMENT

Authorization to charge postal money order cash coupons
 deposit account (see below)

cheque bank draft revenue stamps other (specify): _____

AUTHORIZATION TO CHARGE (OR CREDIT) DEPOSIT ACCOUNT

(This mode of payment may not be available at all receiving Offices)

Receiving Office: US Authorization to charge the total fees indicated above.Deposit Account No. 16-0605 Authorization to charge any deficiency or credit any overpayment in the total fees indicated above.Date: 18 March 2004 Authorization to charge the fee for priority document.Name: Henry B. Ward, IIISignature Henry B. Ward, III